

MAP

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TECHNICAL QUESTIONS:

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- 1.What is a Map in Java?
- 2.Difference between Map and Collection?
- 3.What are key features of Map?
- 4.What is key-value pair in Map?
- 5.Can Map have duplicate keys or values?
- 6.What happens if duplicate key is inserted?
- 7.What are main implementations of Map?
- 8.Difference between HashMap and Hashtable?
- 9.What is LinkedHashMap?
- 10.What is TreeMap?
- 11.Difference between HashMap and TreeMap?
- 12.What is null key/value behavior in HashMap?
- 13.How to iterate a Map?
- 14.Difference between `keySet()`, `values()`, and `entrySet()`

TASKS:

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- 1.Write a Java program to:

Create a HashMap

Add at least 5 key-value pairs (e.g., ID → Name)

Print the complete Map

- 2.Write a program to:

Create a HashMap

Add some elements

Print: All keys , All values , Key-value pairs using `entrySet()`

- 3.Write a program to:

Create a HashMap

Add elements

Retrieve and print the value for a given key

(Example: key = 101 → print corresponding value)

- 4.Write a program to:

Create a HashMap

Add elements

Print the total number of key-value pairs using appropriate method